

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
26 May 2005 (26.05.2005)

PCT

(10) International Publication Number
WO 2005/046425 A2

(51) International Patent Classification⁷: **A61B**
(21) International Application Number:
PCT/IL2004/001035
(22) International Filing Date:
11 November 2004 (11.11.2004)
(25) Filing Language: English
(26) Publication Language: English
(30) Priority Data:
158889 16 November 2003 (16.11.2003) IL
(71) Applicant and
(72) Inventor: **POPOV, Sergey** [IL/IL]; 32/17, Alexander
Yanai St., P. O. Box 4583, 84144 Beer-Sheva (IL).

CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE,
SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

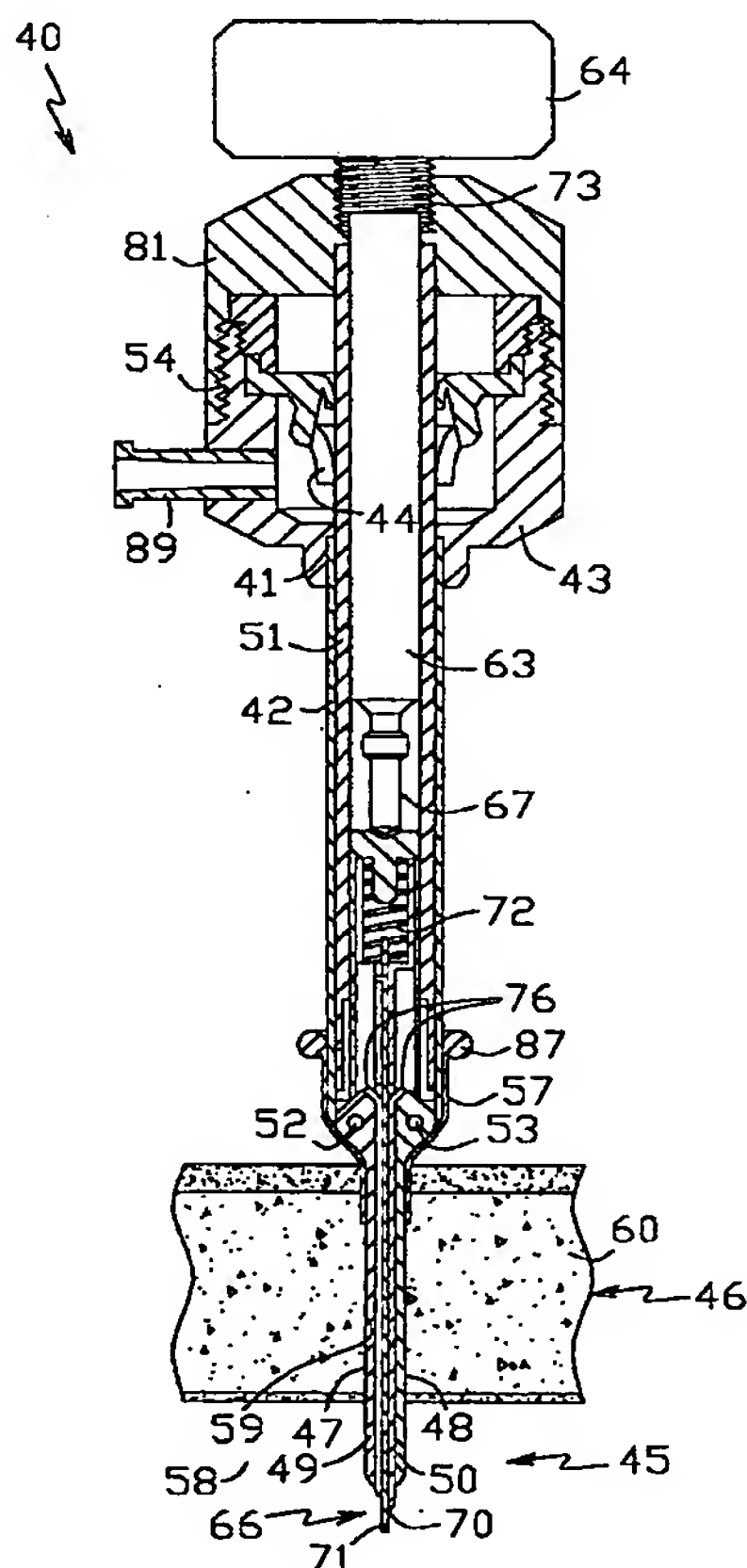
(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,

Published:

— *without international search report and to be republished
upon receipt of that report*

[Continued on next page]

(54) Title: DILATING TROCAR



(57) Abstract: Dilating trocar (40) (see fig. 14) comprises cannula (42) containing carrier (51) with pivotable dilating members (49, 50) of small transversal dimensions protruding distally of the cannula. Obturator (63) is housed inside the carrier and has sharp element (70) with undersprung protective shield (71) protruding distally of the dilating members. After inserting the closed dilating members into a small opening primary made in patient's body cavity wall (60) by sharp element (70), user removes the obturator, introduces an actuating rod into carrier (51) and forces apart the dilating members rotating them about axes (52, 53) and thereby stretching the primary opening to provide the cannula insertion therein. Finally, user removes the actuating rod, carrier and dilating members from cannula (42) remaining the cannula in patient's body.



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.